

WHAT IS CLAIMED IS

1. A method for preparing a yeast extract solution for cell-free protein synthesis, which comprises rupturing a yeast cell in a frozen state and obtaining an extract solution thereof.
2. The method of claim 1, wherein the yeast cell is frozen with liquid nitrogen.
- 10 3. The method of claim 1, wherein the yeast cell is mashed in a mortar with a pestle.
- 15 4. The method of claim 1, further comprising, after the extraction from a yeast cell, removing intracellular components having a molecular weight of not more than 5,000 from the extract solution and concentrating the resulting solution.
- 20 5. A yeast extract solution for cell-free protein synthesis, which is prepared by the method of any of claims 1 to 4.
- 25 6. A cell-free synthesis method of a protein, which comprises using a reaction solution containing the yeast extract solution of claim 5.
7. The method of claim 6, wherein the reaction solution is adjusted to pH 6.0 - 8.0.
- 30 8. The method of claim 6, which comprises dialyzing the reaction solution while synthesizing a protein.
9. A kit for cell-free protein synthesis, which comprises the yeast extract solution of claim 5.